



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

| Cond °C | Cooling Capacity, kW | | | | | | | | | |
|------------|----------------------|-------|-------|------|------|------|------|------|------|------|
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 |
| 30.0 | 1.94 | 2.59 | 3.30 | 4.11 | 5.05 | 6.14 | 6.63 | 7.43 | | |
| 35.0 | 1.79 | 2.43 | 3.12 | 3.91 | 4.81 | 5.86 | 6.33 | 7.09 | 7.78 | |
| 40.0 | 1.64 | 2.26 | 2.94 | 3.69 | 4.56 | 5.56 | 6.01 | 6.74 | 7.40 | 8.12 |
| 45.0 | | 2.09 | 2.75 | 3.47 | 4.30 | 5.26 | 5.68 | 6.38 | 7.01 | 7.70 |
| 50.0 | | 1.92 | 2.55 | 3.24 | 4.03 | 4.94 | 5.35 | 6.01 | 6.61 | 7.26 |
| 55.0 | | | 2.34 | 3.00 | 3.75 | 4.62 | 5.00 | 5.63 | 6.20 | 6.82 |
| 60.0 | | | | 2.76 | 3.47 | 4.28 | 4.64 | 5.24 | 5.77 | 6.36 |
| 65.0 | | | | 2.50 | 3.17 | 3.94 | 4.28 | 4.83 | 5.34 | 5.89 |
| 70.0 | | | | | 2.87 | 3.59 | 3.90 | 4.42 | 4.89 | 5.41 |
| 75.0 | | | | | 2.56 | 3.22 | 3.52 | 4.00 | 4.44 | 4.91 |

| 50 Hz | | ZR34K3E-PFJ | | | | | | | | R134a | |
|------------|------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Cond °C | Power, kW | | | | | | | | | | |
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 | |
| 30.0 | 1.06 | 1.08 | 1.10 | 1.09 | 1.08 | 1.06 | 1.06 | 1.04 | | | |
| 35.0 | 1.16 | 1.20 | 1.20 | 1.20 | 1.20 | 1.18 | 1.18 | 1.17 | 1.16 | | |
| 40.0 | 1.29 | 1.32 | 1.33 | 1.33 | 1.32 | 1.31 | 1.30 | 1.30 | 1.30 | 1.30 | |
| 45.0 | | 1.46 | 1.48 | 1.48 | 1.46 | 1.46 | 1.46 | 1.45 | 1.45 | 1.46 | |
| 50.0 | | 1.64 | 1.64 | 1.64 | 1.64 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | |
| 55.0 | | | 1.84 | 1.84 | 1.82 | 1.81 | 1.80 | 1.80 | 1.80 | 1.80 | |
| 60.0 | | | | 2.06 | 2.04 | 2.02 | 2.01 | 2.01 | 2.01 | 2.01 | |
| 65.0 | | | | 2.31 | 2.28 | 2.26 | 2.25 | 2.24 | 2.24 | 2.24 | |
| 70.0 | | | | | 2.56 | 2.53 | 2.52 | 2.51 | 2.50 | 2.50 | |
| 75.0 | | | | | 2.87 | 2.83 | 2.82 | 2.80 | 2.79 | 2.78 | |
| Cond °C | Current at 230 V, A | | | | | | | | | | |
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 | |
| 30.0 | 5.74 | 5.83 | 5.87 | 5.87 | 5.84 | 5.79 | 5.77 | 5.74 | | | |
| 35.0 | 6.18 | 6.26 | 6.30 | 6.30 | 6.28 | 6.25 | 6.23 | 6.21 | 6.19 | | |
| 40.0 | 6.71 | 6.79 | 6.82 | 6.82 | 6.80 | 6.77 | 6.76 | 6.74 | 6.73 | 6.73 | |
| 45.0 | | 7.42 | 7.44 | 7.43 | 7.41 | 7.38 | 7.37 | 7.36 | 7.35 | 7.35 | |
| 50.0 | | 8.17 | 8.17 | 8.15 | 8.12 | 8.08 | 8.07 | 8.05 | 8.05 | 8.05 | |
| 55.0 | | | 9.03 | 8.99 | 8.94 | 8.89 | 8.87 | 8.85 | 8.84 | 8.84 | |
| 60.0 | | | | 9.96 | 9.88 | 9.81 | 9.79 | 9.77 | 9.75 | 9.74 | |
| 65.0 | | | | 11.07 | 10.97 | 10.87 | 10.84 | 10.80 | 10.78 | 10.77 | |
| 70.0 | | | | | 12.20 | 12.08 | 12.03 | 11.98 | 11.94 | 11.92 | |
| 75.0 | | | | | 13.60 | 13.44 | 13.38 | 13.31 | 13.25 | 13.22 | |
| Cond °C | Suction Mass Flow, g/s | | | | | | | | | | |
| | -20.0 | -15.0 | -10.0 | -5.0 | 0.0 | 5.0 | 7.0 | 10.0 | 12.5 | 15.0 | |
| 30.0 | 12.70 | 16.60 | 20.80 | 25.40 | 30.50 | 36.50 | 39.10 | 43.30 | | | |
| 35.0 | 12.35 | 16.40 | 20.60 | 25.30 | 30.40 | 36.40 | 39.00 | 43.20 | 47.00 | | |
| 40.0 | 11.90 | 16.10 | 20.40 | 25.10 | 30.30 | 36.20 | 38.80 | 43.00 | 46.80 | 50.80 | |
| 45.0 | | 15.70 | 20.10 | 24.90 | 30.10 | 36.00 | 38.60 | 42.80 | 46.50 | 50.60 | |
| 50.0 | | 15.25 | 19.80 | 24.60 | 29.80 | 35.70 | 38.30 | 42.50 | 46.20 | 50.30 | |
| 55.0 | | | 19.35 | 24.20 | 29.50 | 35.40 | 38.00 | 42.20 | 45.90 | 49.90 | |
| 60.0 | | | | 23.80 | 29.10 | 35.00 | 37.60 | 41.70 | 45.50 | 49.50 | |
| 65.0 | | | | 23.30 | 28.60 | 34.50 | 37.10 | 41.30 | 45.00 | 49.00 | |
| 70.0 | | | | | 28.10 | 34.00 | 36.60 | 40.70 | 44.40 | 48.40 | |
| 75.0 | | | | | 27.40 | 33.40 | 36.00 | 40.10 | 43.80 | 47.80 | |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|---|--|
| Displacement @ 50 Hz, m ³ /h | 8.03 |
| Length/Width, mm | 246/246 |
| Height, mm | 400 |
| Net Weight, kg | 28.5 |
| Gross Weight, kg | 30 |
| Stub Suction, inch | 3/4 |
| Stub Discharge, inch | 1/2 |
| Oil Quantity, l | 1.24 |
| Oil type (original charge) | POE RL32-3MAF |
| Oil type (approved oils) | POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC |
| Base mounting (hole dia), mm | 190 x 190 (8.5) |
| Sound Pressure @ 1m (HT), dBA | 57 |
| Sound Power (HT), dBA | 68 |
| Sound Power with Sound Shell (HT), dBA | 61 |
| Sound Conditions (HT, Temperatures: | 7 / 54 / 18 °C at 50 Hz |
| Evap./Cond./Suction at freq./speed) | |
| PED Category | 1 |
| Max. Internal Free Volume, l | 2.60 |
| High Side PS gauge, bar | 29.5 |
| Low Side PS gauge, bar | 20 |
| Low Side TS Max., °C | 50 |
| Refrigerant's GWP | 1430 |
| Refrigerant's classification | A1 |

COMPRESSOR ELECTRICAL DATA (220-240 V / 1~ / 50 Hz)

| | |
|------------------------------|-----------------|
| Maximum Operating Current, A | 17.3 |
| Locked Rotor Current, A | 76 |
| Winding Resistance, ohm | 0.94/2.07 (R/S) |
| Default Enclosure Class | IP 21 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|----------------------------------|---------------------|
| Discharge Temperature Protection | Internal Thermodisk |
| Mounting Grommets | Standard |

ACCESSORIES OPTIONAL

| | |
|------------------------|---------------|
| Crankcase Heater | 70 W External |
| Single Phase Equipment | Run Capacitor |

MOTOR OPTIONS

| Motor Code | Power Supply | Nominal Voltage, V | Start Connection | DOL Connection | Amps Factor |
|-------------------|------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| PFJ | 220-240 V / 1~ / 50 Hz | 230 | | PSC | 1.00 |
| PFJ | 265 V / 1~ / 60 Hz | 265 | | PSC | 0.75 |